

# Asia-Pacific Graphene Composite Market: Focus on Application, Product, and Country-Wise Analysis - Analysis and Forecast, 2024-2034

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## Abstracts

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This report will be delivered in 7-10 working days. Introduction to Asia-Pacific Graphene Composite Market

The Asia-Pacific graphene composite market is projected to reach \$1,973.0 million by 2034 from \$134.1 million in 2024, growing at a CAGR of 30.85% during the forecast period 2024-2034. By utilising graphene's remarkable mechanical, thermal, and electrical properties to improve a variety of base materials, graphene composite materials are becoming a significant innovation in the APAC region. These composites are becoming more and more popular in sectors like electronics, medical devices, automotive, and aerospace due to their exceptional strength-to-weight ratio, high conductivity, and durability. Interest in graphene composites is being fuelled by the growing need for lightweight, high-performance materials in the quickly growing industrial sectors of Asia-Pacific. Their commercial adoption is also being accelerated by developments in functionalisation and scalable production techniques, setting these materials up for broad integration into next-generation applications.

### Market Introduction

The market for graphene composites in Asia is expanding significantly due to the growing need for high-performance, lightweight materials in sectors like energy storage, electronics, automotive, and aerospace. Graphene composites provide improved strength, conductivity, and durability by combining different base materials with

graphene's remarkable mechanical, thermal, and electrical properties. Because of these benefits, they are ideal for next-generation uses in sensors, batteries, medical devices, and structural components.

Graphene composites are becoming more and more popular as a result of rapid industrialisation and technological advancements in nations like China, Japan, South Korea, and India. Research and commercialisation efforts are being accelerated by the region's strong emphasis on innovation, which is bolstered by government programs and private sector investments in advanced materials and nanotechnology. Additionally, these composites are becoming more widely available for use due to advancements in scalable graphene production and functionalisation methods.

Graphene composites are also being investigated for environmentally friendly solutions, such as energy-efficient electronics and lightweight automotive components that improve fuel efficiency, as sustainability gains more attention. The APAC graphene composites market is expected to grow significantly due to ongoing research and development, rising investments, and growing adoption across important industrial sectors as industries look for long-lasting, high-performance materials to satisfy changing technological and environmental standards.

## Market Segmentation:

### Segmentation 1: by Application

Aerospace and Defense

Automotive Industry

Energy and Power

Electronics and Electrical

Construction and Infrastructure

Sporting Goods and Recreation

Medical and Healthcare

Consumer Goods

Oil and Gas

Others

#### Segmentation 2: by Composite Type

Polymer Matrix Composites (PMCs)

Metal Matrix Composites (MMCs)

Ceramic Matrix Composites (CMCs)

Others

#### Segmentation 3: by Graphene Form

Graphene Nanoplatelets (GNPs)

Graphene Oxide (GO)

Others

#### Segmentation 4: by Composite Form

Bulk Composites

Coating

Fibers

Others

#### Segmentation 5: by Region

## Asia-Pacific - China, Japan, South Korea, India, Australia, and Rest-of-Asia-Pacific

How can this report add value to an organization?

**Product/Innovation Strategy:** The product segment helps the reader understand the different types of products and applications for graphene composite. Moreover, the study provides the reader with a detailed understanding of the Asia-Pacific graphene composite market by application based on application (aerospace and defense, automotive industry, energy and power, electronics and electrical, construction and infrastructure, sporting goods and recreation, medical and healthcare, consumer goods, oil and gas, others) and product on the basis of composite type (polymer matrix composites (PMCs), metal matrix composites (MMCs), ceramic matrix composites (CMCs), others), on the basis of graphene form (graphene nanoplatelets (GNPs), graphene oxide (GO), and others), and lastly on the basis of composite form (bulk composites, coating, fibers, and others).

**Growth/Marketing Strategy:** The Asia-Pacific graphene composite market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture. The favored strategy for the companies has been partnerships, contracts, and business expansion to strengthen their position in the graphene composite market.

## Contents

Executive Summary  
Scope and Definition

### 1 MARKETS

- 1.1 Trends: Current and Future Impact Assessment
  - 1.1.1 Emerging Technologies in Graphene Processing
  - 1.1.2 Advancements in Composite Manufacturing Techniques
- 1.2 Supply Chain Overview
  - 1.2.1 Value Chain Analysis
  - 1.2.2 Pricing Forecast
- 1.3 Regulatory Landscape
  - 1.3.1 Consortiums and Associations
  - 1.3.2 Regulatory Bodies
  - 1.3.3 Government Programs and Subsidies
- 1.4 Research and Development Review
  - 1.4.1 Patent Filing Trend (by Country and by Company)
  - 1.4.2 End-User Buying Criteria
  - 1.4.3 Life Cycle Analysis of Graphene Enhanced Products
- 1.5 Market Dynamics Overview
  - 1.5.1 Business Drivers
    - 1.5.1.1 Increasing Demand for Advanced Materials with Superior Mechanical, Thermal, and Electrical Properties
    - 1.5.1.2 Rising Adoption of Lightweight Materials for Electric Vehicles (EVs) and Renewable Energy Technologies, such as Wind Turbines and Energy Storage Systems
    - 1.5.1.3 Environmental Regulations Pushing Manufacturers
  - 1.5.2 Business Challenges
    - 1.5.2.1 High Production Costs and Technical Complexity of Scaling Graphene Manufacturing, Limiting Widespread Adoption
    - 1.5.2.2 Competition from Established Nanomaterials and Carbon-Based Alternative
  - 1.5.3 Business Opportunities
    - 1.5.3.1 Innovation and New Market Entry Opportunities
    - 1.5.3.2 Sustainability Trends Driving Demand for Stronger, Lighter, and Eco-Friendly Materials

### 2 REGIONS

## 2.1 Regional Summary

## 2.2 Asia-Pacific

### 2.2.1 Regional Overview

### 2.2.2 Driving Factors for Market Growth

### 2.2.3 Factors Challenging the Market

### 2.2.4 Application

### 2.2.5 Product

### 2.2.6 China

### 2.2.7 Application

### 2.2.8 Product

### 2.2.9 India

### 2.2.10 Application

### 2.2.11 Product

### 2.2.12 Japan

### 2.2.13 Application

### 2.2.14 Product

### 2.2.15 Australia

### 2.2.16 Application

### 2.2.17 Product

### 2.2.18 South Korea

### 2.2.19 Application

### 2.2.20 Product

### 2.2.21 Rest-of-Asia-Pacific

### 2.2.22 Application

### 2.2.23 Product

## 3 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

### 3.1 Next Frontiers

### 3.2 Geographic Assessment

## 4 RESEARCH METHODOLOGY

### 4.1 Data Sources

#### 4.1.1 Primary Data Sources

#### 4.1.2 Secondary Data Sources

#### 4.1.3 Data Triangulation

### 4.2 Market Estimation and Forecast

## List Of Figures

### LIST OF FIGURES

Figure 1: Asia-Pacific Graphene Composite Market (by Application), 2023, 2026, and 2034

Figure 2: Asia-Pacific Graphene Composite Market (by Composite Type), 2023, 2026, and 2034

Figure 3: Asia-Pacific Graphene Composite Market (by Graphene Form), 2023, 2026, and 2034

Figure 4: Asia-Pacific Graphene Composite Market (by Composite Form), 2023, 2026, and 2034

Figure 5: Graphene Composite Market, Recent Developments

Figure 6: Patent Filing Trend (by Country), January 2020-October 2024

Figure 7: Patent Filing Trend (by Company), January 2021-October 2024

Figure 8: China Graphene Composite Market, \$Million, 2023-2034

Figure 9: India Graphene Composite Market, \$Million, 2023-2034

Figure 10: Japan Graphene Composite Market, \$Million, 2023-2034

Figure 11: Australia Graphene Composite Market, \$Million, 2023-2034

Figure 12: South Korea Graphene Composite Market, \$Million, 2023-2034

Figure 13: Rest-of-Asia-Pacific Graphene Composite Market, \$Million, 2023-2034

Figure 14: Strategic Initiatives, January 2021-September 2024

Figure 15: Share of Strategic Initiatives, January 2021-September 2024

Figure 16: Data Triangulation

Figure 17: Top-Down and Bottom-Up Approach

Figure 18: Assumptions and Limitations

## List Of Tables

### LIST OF TABLES

Table 1: Market Snapshot

Table 2: Graphene Composite Market, Opportunities across Regions

Table 3: Impact Analysis of Market Navigating Factors, 2023-2034

Table 4: Graphene Composite Market (by Region), \$Million, 2023-2034

Table 5: Graphene Composite Market (by Region), Ton, 2023-2034

Table 6: Asia-Pacific Graphene Composite Market (by Application), \$Million, 2023-2034

Table 7: Asia-Pacific Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 8: Asia-Pacific Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 9: Asia-Pacific Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 10: Asia-Pacific Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 11: Asia-Pacific Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 12: Asia-Pacific Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 13: China Graphene Composite Market (by Application), \$Million, 2023-2034

Table 14: China Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 15: China Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 16: China Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 17: China Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 18: China Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 19: China Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 20: India Graphene Composite Market (by Application), \$Million, 2023-2034

Table 21: India Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 22: India Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 23: India Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 24: India Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 25: India Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 26: India Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 27: Japan Graphene Composite Market (by Application), \$Million, 2023-2034

Table 28: Japan Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 29: Japan Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 30: Japan Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 31: Japan Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 32: Japan Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 33: Japan Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 34: Australia Graphene Composite Market (by Application), \$Million, 2023-2034

Table 35: Australia Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 36: Australia Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 37: Australia Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 38: Australia Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 39: Australia Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 40: Australia Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 41: South Korea Graphene Composite Market (by Application), \$Million, 2023-2034

Table 42: South Korea Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 43: South Korea Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 44: South Korea Graphene Composite Market (by Graphene Form), \$Million, 2023-2034

Table 45: South Korea Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 46: South Korea Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 47: South Korea Graphene Composite Market (by Composite Form), Ton, 2023-2034

Table 48: Rest-of-Asia-Pacific Graphene Composite Market (by Application), \$Million, 2023-2034

Table 49: Rest-of-Asia-Pacific Graphene Composite Market (by Composite Type), \$Million, 2023-2034

Table 50: Rest-of-Asia-Pacific Graphene Composite Market (by Composite Type), Ton, 2023-2034

Table 51: Rest-of-Asia-Pacific Graphene Composite Market (by Graphene Form),

\$Million, 2023-2034

Table 52: Rest-of-Asia-Pacific Graphene Composite Market (by Graphene Form), Ton, 2023-2034

Table 53: Rest-of-Asia-Pacific Graphene Composite Market (by Composite Form), \$Million, 2023-2034

Table 54: Rest-of-Asia-Pacific Graphene Composite Market (by Composite Form), Ton, 2023-2034

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